

Name : _____

Score : _____

Teacher : _____

Date : _____

Simplify the Radicals

1) $\sqrt{100} =$

2) $\sqrt{81} =$

3) $\sqrt{243} =$

4) $\sqrt{8} =$

5) $\sqrt{242} =$

6) $12\sqrt{75} =$

7) $14\sqrt{700} =$

8) $\sqrt{216} =$

9) $5\sqrt{343} =$

10) $\sqrt{121} =$

Name : _____

Score : _____

Teacher : _____

Date : _____

Simplify the Radicals

1) $\sqrt{100} = 10$

2) $\sqrt{81} = 9$

3) $\sqrt{243} = \sqrt{81 \times 3} = \sqrt{81} \times \sqrt{3} = 9\sqrt{3}$

4) $\sqrt{8} = \sqrt{4 \times 2} = \sqrt{4} \times \sqrt{2} = 2\sqrt{2}$

5) $\sqrt{242} = \sqrt{121 \times 2} = \sqrt{121} \times \sqrt{2} = 11\sqrt{2}$

6) $12\sqrt{75} = 12\sqrt{25 \times 3} = 12 \times \sqrt{25} \times \sqrt{3} = 12 \times 5 \times \sqrt{3} = 60\sqrt{3}$

7) $14\sqrt{700} = 14\sqrt{100 \times 7} = 14 \times \sqrt{100} \times \sqrt{7} = 14 \times 10 \times \sqrt{7} = 140\sqrt{7}$

8) $\sqrt{216} = \sqrt{36 \times 6} = \sqrt{36} \times \sqrt{6} = 6\sqrt{6}$

9) $5\sqrt{343} = 5\sqrt{49 \times 7} = 5 \times \sqrt{49} \times \sqrt{7} = 5 \times 7 \times \sqrt{7} = 35\sqrt{7}$

10) $\sqrt{121} = 11$